2 . 2.22

SUMMATION: A method of modifying standard microfilm cameras to permit accurate automatic photoelectric outting of Xerox prints.

INTRODUCTION: In mass producing paper prints from microfilm, continuous Xerographic and photographic printers are rapidly replacing older step-by-step, frame-by-frame methods, due both to their greatly superior speciand (in Xerography) their use of inexpensive 20-pound sulfite paper. In order to obtain maximum sutilization of these fast printers, however, some means of automatically cutting the rells of finished prints into individual prints must be provided. While a number of automatic cutters for conventional "wet process" use exist, they have not been used for continuous printer chopping due to the nature of the process:

THE PROBLEM: In frame-by-frame printing, only the desired subject antter (e.g.: one page of a degment) is included in the final print. All extracted blank film and unused film area is masked off. As each frame is exposed, a small lamp and mask arrangement simultaneously exposes a rectangular area along the margin of the roll adjacent to the frame and perpendicular to the length of the roll. After processing and drying, the roll may be chopped into individual prints by a photoelectric-scanner controlled automatic cutter, since the cutting mark produced on the margin, is a uniform intense black area -- the only such area along the margin, due to the making.

In continuous printing this is impossible. Not only the document is printed, but also the background area, as well as all clear areas of the microfilm between and around each frame. This results in each frame of the roll of prints having non-uniform black areas at unpredictable intervals. The inability of the Kerographic printer to reproduce heavy solids compounds the problem by doubling the number of these black areas, reproducing only the leading and trailing edges of each one. In addition, no practicable, dependable method has been devised for introducing a cutting mark onto the paper roll in the Microfilm Head Xerox, since no framing is done -- both film and paper move continuously.

SUGGESTED SOLUTION: In appreximately February of this year it was suggested by the undersigned that The smuch as the bulk of microfilm received for printing by any government agency is produced within the control of that agency, a standard procedure could be adopted, involving a simple modification of Agency cameras. This adjustment consists of resetting the film pull-down clutch, decreasing the amount of film transported with each exposure. As a refinement, the viewing (framing) arrangement can be adjusted to coincide, if desired. The result of this adjustment is to eliminate the clear film between frames, since each frame will overlap a climinate the clear film between frames, since each frame will overlap a climinate, thus permitting automatic photoelectric cutting by standard machines, this system incidentally has the virtue of effecting a slight saving (approximately 5%) of microfilm, since the images may be more closely spaced.

It was further suggested that a outting mark could be included in the microfilm frame by positioning a black line of predetermined width within the copy area, but extending transversely outward. The combination of this suggestation of this suggestation of the sugges

Approved For Release 2000/08/15 CtA-RDP80-00832A090200080037-7

algnal line, may be photographed almultaneously do one finent of operative resulting paper prints from these frames will be submatically out into individual pards. Where critical definition is not required, the last of greater reductions and subsequent resembergement magnifications would permit substantial savings in film and film atomage, with most apportition of automatic production techniques.

THEST EVALUATION: Since these suggestions were first made, meable of tests have proven very satisfactory. Steps are being taken to modify egency microfilm equipment in accordance therewith, and it has then reported that other government agencies are following suit. Product utilization of the system's full advantages has been delayed pending delivery of outting equipment designed to handle the lightweight paper used in X-rographic reproduction. Trial runs made on card stock for evaluable cutting equipment were highly satisfactory. A limited now on lightweight was tested on the cutting equipment which was subsequent exclared, with similar results.

PROUTERD.	
Approved For Release 2000/06/13 : CIA-RDP8U-00832A0002000800304-Aumeen EVALUATION OF EMPLOYEE SUGGESTION	
FORM:	
EXECUTIVE SECRETARY	
INCENTIVE AWARDS COMMITTEE ACTION RECOMMENDED	
1. ADOPT FOR USE. (DATE ADOPTED) INDICATE ACTION 2. ALREADY IN EFFECT BUT THIS SUSGESTION MAKES ADDED CONTRIBUTION. (SPECIFY BELOW)	
The same and the same and the same	
THE COMMENTS THE PROPERTY OF T	
A CONTRACTOR AND CONTRACTOR	
NUMBER IN BOX 5. REQUIRE FURTHER STUDY. (MINER STUDY. (MINER STUDY.)	
7. REFER SUGGESTION TO (OTHER COMPONENT)	
PEASONS FOR RECOMMENDATION	
In order to guide the Incentive Awards Camifetee in making final determination, an analysis of the antifirst year's savings and/or other benefits should be shown here. If applicable, indicate and explain be posed disposition of savings as (1) allowest savings, (2) increased output at same cost or (3) applicable disposition of savings as (1) allowest savings, (2) increased output at same cost or (3) applicate resources saved to some other necessary activity. If suggestion contains intangible value, such as safety, etc., please indicate the extent of the area which you think the suggestion will affect, i.e.: and the same of	cation of s morale, : the im-
1. Suggestion No. 3803 has been adopted and is in use in the Printing Services Division. It is a technique which is enabling the Printing Services Division.	ATCAR
	•
)
The second of th	
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	•
The transmission of the control of t	
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	- 1 - 1 - 1
by utilizing this suggestion, to trim prints sutematically on a special electronic cutter now mearing completion,	
그는 그는 그는 그는 그는 그는 그는 그는 그는 그를 가는 그를 하는 것이 되었다. 그는 그는 그를 하는 것은 그를 하는 것은 것이다. 그는 그는 그를 하는 것은 것이다. 그를 하는 것은 것이다.	P = 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2. At the present time we know of no other reliable means of	
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	
the suggestion will have value not only to CIA but to other Government and commercial users of microfilm and microfilm prints as well.	
and commercial users of microfilm and microfilm printer as	
3. The full value of this technique will not be apparent until	
。	
	£
The state of the s	red.
Components of the agency with the asked to utilize it where applicab	ne.
· · · · · · · · · · · · · · · · · · ·	
4. This suggestion has also been used on film being produced for the	le

this caterial in the event that these records has be in the	
a later date in hard copy form.	-
the same and analysis of the two	, <u>1</u> 3
· · · · · · · · · · · · · · · · · · ·	and the second of the second o
THE REPORT OF THE PARTY OF THE	305
the more intenginis benefits of the suggestion are as follows:	
	енен
CONTRACTO ON ATTA	38267
	p in a harb
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 2 AUGA ជ្រុងតែទីved For Release 2000/08/15 - CIA-RD ខុនបករបួននេះស្វារប្រ200089937ក្	新新。 "我们"
Ahhmanan Loi Maisase Sonotoo 13 TIV-KIN-IIA STATING (MISSING) (A)	

FORM NO. 2446 REPLACES FORM ST-1645

Approved For Release 2000/08/15: CIA-RDP80-00832A009200080037-7

Suggestion No. Jave (* 1980

- a. It will eliminate a serious production bettlemenk in certain types of microfilm printing.
- b. It will prompte wider usage of microfilm as an intermediate for the reproduction of documents.
- 6. At the existing formercial Zerox microfilm grinting established ments throughout the country, the chearing of prints is being accomplished manually. The current rate for this middle appring is about (1.30) yes thousand documents. With the technique and outler described at we in would be possible for one man to chop 30,000 8" deciments or about this 20,000 worth of cutting in a day. For this reason, it is believed that the suggestion may find vide usage.
- 7. In regard to the eligibility of the suggestor for an eward, it is felt that the suggestor's job description is primarily one of main-venance and repair and the designing and/or building of new equipment. However, this suggestion seems to be entirely beyond the scope of the suggestion is job responsibilities. Since this suggestion represents a new and valuable idea to the Agency and which will probably find use in other Government and commercial organisations as well as ClA, the suggestor should be considered for an award based upon the information furnished borein.